BEFORE THE HON'BLE
ODISHA ELECTRICITY REGULATORY COMMISSION
BIDYUT NIYAMAK BHAWAN
PLOT NO.4, CHUNOKOLI, SHAILASHREE VIHAR, CHANDRASEKHARPUR,
BHUBANESWAR-751021

Case No 51 of 2025

In the matter of: **An application for initiation of Suo Motu Proceeding under Regulation 9 (1) and (4) of OERC (Conduct of Business) Regulations, 2004 to issue suitable directions with respect to deficiency in consumer service by TP DISCOMS in the State under OERC Supply Code, 2019 and License Conditions issued to them.**

AND

In the matter of: Director (Regulatory Affairs), OERC

.... Applicant

VRS

TPWODL & Ors .... Respondent

AFFIDAVIT

I, Satish Kumar, aged about 55 years, S/o. Late Girija Shankar Prasad working as Chief (Finance Officer and Regulatory Affairs), do hereby solemnly affirm and state as follows:

1. That, I am authorized representative of the TPWODL, the Respondent in the instant case and competent to swear this affidavit for and on behalf of the licensee.
2. That, I have gone through the contentions in this application and understood the contents thereof.
3. That, the facts stated in the reply are true to the best of my knowledge & belief and are as per available records.

Respondent

Verified that the contents of the above affidavit are true and correct, no part of it is false and nothing material has been concealed therefrom.

Verified at SAMBALPUR on this 4TH day of July 2025.

Respondent

K.P. MISHRA, NOTARY
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AND

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.... Applicant

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TPWODL & Others **.... Respondent**

The Humble respondent above named respectfully sheweth that:

1. That, the Respondent, has taken over the distribution business from erstwhile WESCO utility w.e.f 01.01.2021 as per terms of vesting order. TP Western Odisha Distribution Limited (TPWODL) is a joint venture between Tata Power and the Government of Odisha with equity participation of 51% by Tata Power Company Ltd.

2. That, the Respondent is the Distribution Licensee, as per License Condition dated 26.03.2021 of the Hon'ble Commission, in western part of Odisha having 09 revenue districts namely Sambalpur, Jharsuguda, Deogarh, Sundargarh, Bargarh, Bolangir, Sonepur, Kalahandi and Nuapada with area of operation of 48373 Sq.Km.

3. That, as per mandate of Vesting Order, the Respondent is procuring power from the GRIDCO, who is the state designated entity to procure power for all the 4 DISCOM(s) from different generators like Thermal, Hydel, Renewable etc. located in and outside Odisha.

4. That, the Director (Regulatory Affairs), OERC has filed the instant application for initiation of Suo Motu proceedings under Regulation 9 (1) and (4) of OERC (Conduct of Business) Regulations, 2004 to issue suitable directions with respect to deficiency in consumer service by TP DISCOMS in the State under OERC Supply Code, 2019 and License Conditions issued to them with the following prayer:

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"In view of the above facts and circumstances stated above, the petitioner therefore prays the Commission to admit this application and issue Public Notice inviting general consumers to give their comments and pass appropriate order after hearing the parties including DISCOMs for which act of kindness the Petitioner shall be duty bound ever pray".

5. That, the Respondent DISCOM herewith submits its para-wise response to the above application as under:

6. That, with respect to the contention in Para No. 1, it is submitted that as per Section 21(a) of the Electricity Act, 2003, the utility of WESCO has been vested in TP Western Odisha Distribution Limited (TPWODL) with effect from 01.01.2021. The Hon'ble Commission had issued License Conditions to the Respondent DISCOM vide Order No. OERC/Engg./2/2021/409 dated 26.03.2021. The Respondent DISCOM is obligated to render services in accordance with the provisions of the Electricity Act, 2003, Vesting Order dated 28.12.2020, OERC (Conditions of Supply) Code, 2019, OERC (Standard of Performance) Regulations, 2004 and applicable Licence Conditions.

   It is respectfully submitted that the Respondent DISCOM is making every effort to discharge its obligations and has complied with all performance parameters stipulated in the Vesting Order dated 28.12.2020, issued by this Hon'ble Commission in Case No. 82/2020, as well as other performance parameters prescribed under the applicable statutes and regulations referred to hereinabove. Owing to the constructive intent, consistent efforts and timely guidance of the Hon'ble Commission, the Respondent DISCOM has successfully transformed from a loss-making entity into a financially viable company. Its achievements have garnered recognition and accolades at the national level.

   During various events organized by the Forum of Regulators and the Forum of Regulators for Eastern and North-Eastern States, the Hon'ble Commission has witnessed the appreciation expressed by counterparts from other states regarding the power sector reforms undertaken in Odisha over the past five years.

   Also, Ministry of Power (GoI) has recognized TPWODL with A+ rating in 11th, 12th & 13th Annual Integrated Rating for continuously 3 years in a row.

   In discharging its duties and obligations under the applicable statutes, the Respondent DISCOM adheres to the highest standards of governance to ensure the protection of all stakeholders' interests and to deliver services to its consumers with utmost diligence and care.

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In the Vesting Order dated 28.12.2020 issued in Case No. 82/2020, the Hon'ble Commission has set commitment trajectory for AT&C loss reduction, pre-vesting period arrear collection and capex investment as provided in the Para Nos. 40 (a), 43 (c) & 39 (b). The Respondent DISCOM achieved the stipulated targets as per the data furnished below. These data reveal that the Respondent DISCOM is fully committed to improve the overall service delivery ecosystem in its license area and is making continuous efforts to further improve the performance.

A) AT&C Loss Trajectory

Financial Year	Target Commitment %	Actuals %	Overachieved %
FY 2021-22	27.56%	26.80%	0.76%
FY 2022-23	25.56%	18.28%	7.28%
FY 2023-24	22.50%	15.51%	6.99%
FY 2024-25	20.50%	16.23%	4.27%

B) Past Arrear Collection

Financial Year	Target Commitment (Rs. Cr.)	Actuals (Rs. Cr.)
FY 2020-21		104.55
FY 2021-22	30	113.78
FY 2022-23	120	130.58
FY 2023-24	60	48.04
FY 2024-25	60	64.17
FY 2025-26 (up to Apr'25)	30	2.02
TOTAL	**300**	**463.14**

C) Cumulative Capital Investment

Financial Year	Commitment (Rs. Cr.)	Approved (Rs. Cr.)	Actuals (Rs. Cr.)
FY 2021-22	306	333.13	333.53
FY 2022-23	806	810.85	799.71
FY 2023-24	1139	1192.76	1166.98
FY 2024-25	1461	1701.53	1551.02

7. That, the statements made in Para Nos. 2, 3 & 4 pertain to factual information and hence not replied to.

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8. That, in response to Para No. 5, the Respondent DISCOM submits that being a regulated entity, it is bound by the Regulations or Rules or Guidelines specified by the Hon'ble Commission and abides by the same.

Hon'ble Commission's kind attention is drawn to the specific instance with respect to the compliance of one of the key provisions of OERC (Conditions of Supply) Code, 2019 where the Respondent DISCOM is facing problem i.e. for ensuring compliance of Regulation no-134(II), the relevant clause is reproduced below:

> *"134 (II) Power supply to multi-storeyed buildings, residential apartments, multiple duplexes/simplexes etc. developed by the promoter.*
> *(i) All such projects need to have prior approval of competent authority.*
> *(ii) The promoter on its own cost shall develop the infrastructure required for effecting power supply to consumers and handover to the licensee/supplier on deposit of necessary charges. Alternatively, the cost of such infrastructure may be deposited with the licensee/supplier and licensee/supplier shall be responsible for installation, maintenance, repair/replacement etc. thereafter.*
> *(iii) The power supply shall not in any way affect the right of a person residing in the housing unit sold/leased to demand power supply directly from the licensee/supplier."*

The Respondent DISCOM most respectfully submits that in several cases, developers are undertaking plotted developments and subsequently selling individual plots to buyers, who then approach the Respondent DISCOM for electricity connections. As per the applicable regulations, it is the responsibility of the developer to bear the cost of developing the necessary electrical infrastructure. However, in the absence of such infrastructure, the Respondent DISCOM is unable to release connections to individual buyers.

This matter warrants the kind intervention and guidance of the Hon'ble Commission for appropriate resolution.

9. That, in case of Para No. 6 of the application, the Respondent DISCOM most respectfully submits that while checking remunerative-ness of the scheme, the Respondent DISCOM is taking into account the other applied/ upcoming connections to the extent the information is available.

10. That, in response to the query raised in Para No. 7, it is submitted that in case of single-phase new connections, the Respondent DISCOM undertakes capacity augmentation of transformers as part of its system strengthening initiatives, ensuring that infrastructure

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keeps pace with demand. The charges levied for providing such single-phase connections are in accordance with Clause 22(vi) and Regulation 27 of the OERC (Conditions of Supply) Code, 2019.

11. That, in reply to Para No. 8, the Respondent DISCOM submits that temporary power supply and new connections are being released in accordance with relevant Regulations of the OERC (Conditions of Supply) Code, 2019.

    To facilitate ease of access and enhance consumer experience, multiple platforms have been established for applicants to register requests for both temporary and permanent connections. These include the Mo Bidyut portal, Call Centre and Customer Care Centres. Applicants are also provided with the facility to track the status of their applications online, with system-based auto-escalations implemented to address any delays proactively. A dedicated centralized team has been deployed to monitor applications, intervene where necessary and ensure timely escalations for prompt resolution. Additionally, regular reviews are conducted at both the Circle and Corporate levels to facilitate timely administrative intervention as needed. The adoption of Information Technology in these processes has significantly enhanced administrative oversight, improved overall efficiency and minimized the scope for individual discretion, thereby promoting transparency and accountability within the system.

    The Respondent DISCOM submits that all new connection applications are processed through the integrated platform of Mo-Bidyut (a Govt. of Odisha's portal) and Fluent Grid application, which enables transparent and efficient handling of requests. The connections are released within the timelines specified by the Hon'ble Commission. Instances of delay, if any, are confined to cases involving incomplete or incorrect documentation, right of way constraints or other circumstances beyond the control of the DISCOMs.

12. That, in response to the query in Para No. 9, the Respondent DISCOM acknowledges the importance of maintaining clear corridors around HT and LT lines, as well as ensuring the upkeep of sub-station infrastructure, to provide reliable and quality power supply.

    The Respondent DISCOM submits that it follows an annual maintenance plan that includes vegetation clearance and substation upkeep. These activities are undertaken in a planned and systematic manner, with special emphasis on pre and post monsoon preparedness.

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Mechanised pruning tools and trained personnel are deployed to ensure efficient and safe execution of the works.

Additionally, any grievance related to maintenance or safety received through various channels such as customer care, field offices or digital platforms that are addressed on priority to ensure timely resolution.

13. That, the query raised in Para No. 10 pertains to TPCODL and will be addressed in their response accordingly and therefore not replied to.

14. That, the query raised in Para No. 11 pertains to the Respondent DISCOM and the detailed reply is provided as under for the kind consideration of the Hon'ble Commission:

It is worthwhile to bring to the kind notice of the Hon'ble Commission that when TPWODL assumed operations, it required us to work on 33 kV lines, 33/11 kV PSS, 11 kV lines, DSS and LT lines. Thus, to improve and strengthen the electrical network, TPWODL undertook a comprehensive assessment of existing electrical networks for identification of area of Upgradation, Augmentation and Replacement. Since major network needed to be augmented/ upgraded which could have a larger impact on tariff, therefore year-wise CAPEX plan was prepared and submitted to the Hon'ble Commission for gradual implementation with the philosophy and primary focus on improving the reliability of areas having larger number of consumers with maximum load thereby benefiting more number of consumers. This inclusive approach is reflected in the allocation of significant CAPEX to residential and mixed load areas such as Bargarh, Sambalpur, Kalahandi, Sonepur and Jharsuguda without focusing on the ABR.

Based upon the above philosophy, Capital Expenditure Schemes are prepared and submitted to Hon'ble Commission for kind approval. Based upon the approval of the Hon'ble Commission, TPWODL has undertaken extensive network overhaul, replacing faulty equipment, refurbishing primary substations and installing modern assets. The 33kV & 11kV overhead networks were strengthened through augmentation works, including installation of isolators, AB switches, FPIs, RMUs, polymer insulators and auto-reclosers, enabling quicker fault detection and faster restoration of supply, thus significantly improving reliability and quality. Necessary augmentation is also made at the LT distribution level. These measures have been systematically implemented using

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the CAPEX approved by the Hon'ble Commission, with a phased and judicious approach aimed at long-term and holistic system strengthening.

The year-wise CAPEX approved by the Hon'ble Commission vis-à-vis the actual CAPEX done by the Respondent DISCOM till Mar-25 is tabulated below for the kind perusal of the Hon'ble Commission:

CATEGORY	Total Budget Approved (Rs. Cr.)	Actual CAPEX Till Mar 25 (Current) (Rs. Cr.)
Statutory, Safety and Security	236.53	227.83
Loss Reduction	202.89	191.02
Network Reliability	378.23	315.54
Load Growth	461.37	401.95
Technology & Infrastructure	422.51	414.67
TOTAL	**1701.53**	**1551.02**

Snapshot of the major works executed are appended as under:

S. No.	Detail Of Works	UOM	Up to FY-25 (Actual)
1	33 kV Breaker Addition/Replacement	Nos.	179
2	33 kV Line Upgradation/Refurbishment (28 Nos.)	Ckm	231.39
3	33 kV New Line Addition	Ckm	423.92
4	33 kV Auto Recloser & Sectionalizer	Nos.	62
5	33 kV FPI	Nos.	516
6	Installation of 33 kV AB switch	Nos.	144
7	Installation of 33 kV Intermediate Pole	Nos.	1068
8	11 kV Breaker Addition/Replacement	Nos.	218
9	11 kV Line Upgradation /Refurbishment (171 Nos.)	Ckm	696.97
10	11 kV New Line Addition	Ckm	371.10
11	11 kV Auto Recloser	Nos.	62
12	11 kV Sectionalizer	Nos.	180
13	11 kV FPI	Nos.	881
14	11 kV RMU	Nos.	55
15	Installation of 11 kV Intermediate Pole	Nos.	12479
16	Installation of 11 kV AB switch	Nos.	2897
17	PSS Boundary Wall	Nos.	95
18	PSS Earthing Refurbishment	Nos.	69
19	PTR Addition/Augmentation	Nos.	35
20	DSS Fencing	Nos.	2253
21	DTR Addition	Nos.	154
22	DTR Augmentation	Nos.	783
23	LT Breaker Addition/Replacement	Nos.	5058
24	LT Line Addition (New & Covered)	Ckm.	1365.97

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With regards to the issue of power interruption faced by M/s Jagannath Spintex Pvt. Ltd. (CD 650 kVA) availing power at 33 kV from the Respondent DISCOM, it is submitted that TPWODL vide its letter No. **TPWODL/CEO/FY25-26/012 dated 04.05.2025** to the Hon'ble Commission had submitted its detailed response/ analysis supported by technical considerations and measures undertaken so far to the concerns raised by the customer wherein most of the interruptions/duration were on account of force majeure and upstream EHT network.

Moreover, vide letter No. **TPWODL/CEO/FY25-26/019 dated 19.05.2025** to the Hon'ble Commission, TPWODL had submitted the detailed report for the proposed Reliability Enhancement Scheme which had been framed keeping in view technical feasibility, thorough field inspection and interruption data analysis and is waiting for **approval of the Hon'ble Commission** for proceeding further in the matter. TPWODL letters dated 04.05.2025 and 19.05.2025 are attached as **Annexure A & B** respectively.

It is submitted that M/s Jagannath Spintex Pvt. Ltd. is connected to 33kV Bhawanipatna No. 2 feeder emanating from 220/132/33 kV Kesinga Grid Substation (GSS). The total length of the feeder is 30 Ckm. with 100 sq.mm. AAAC Conductor and a peak loading of 30 Amp. Ageing of the said circuit is more than 30 Years and augmentation was done under Govt. Fund in FY 2008-09. Before commissioning of Bhawanipatna GSS, this feeder used to feed part of Bhawanipatna. The said feeder now feed 6 nos. of industries/ HT consumers (namely M/s Western Chemical, M/s Airstrip, M/s Samleswari Aqua Industries, All India Radio, M/s Basudev Food & M/s Shree Jagannath Spintex. Pvt. Ltd.). As per the conventional practice all 6 consumers are connected through tap line hence **any interruption in aforesaid line impacts the power supply** of all the connected consumers.

This feeder passes through **river crossings and dense plantation/vegetation** patches (Site photographs enclosed as **Annexure C**) where tree trimming is restricted, leading to frequent transient faults that adversely affect feeder reliability. An alternate supply for this feeder is available from 33/11 kV Raisingpur PSS via the 33 kV Bhangabari Bhawanipatna No-1 feeder, which originates from the 132/33 kV Bhawanipatna GSS. The alternate feeder is 35 km long with 100 sq.mm. AAAC conductor. It has a peak load of 207 Amp., which rises to 245 Amp. under N-1 conditions.

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Interruptions experienced by M/s Jagannath Spintex Pvt. Ltd. were first brought to notice of TPWODL by consumer in Jun'24. TPWODL Senior Official visited in Jun'24 and jointly finalized an action plan to enhance reliability. Based upon action undertaken by customer and TPWODL, a substantial reduction in customer interruption count has been observed from Jul'24 till Feb'25 as depicted below:

S. No.	Month	Power off Events (Nos.) incl. PSDs
1	Apr-24	14
2	May-24	25
3	Jun-24	25
4	Jul-24	8
5	Aug-24	10
6	Sep-24	9
7	Oct-24	8
8	Nov-24	5
9	Dec-24	4
10	Jan-25	3
11	Feb-25	1

During the Month of Apr'25, it was again brought to our Notice that interruption has increased. TPWODL's team immediately visited and analyzed the interruptions during the Mar'25 and Apr'25 and found that major interruptions are non-attributable to TPWODL. Major Interruptions are due to OPTCL Transmission Network Constraint, Planned Shutdown due to charging of New Connection on same line, breakdown of customer Auto recloser and interruptions due to Kalbaisakhi/ Thunderstorm. Based upon the analysis of March and April interruption, further joint action plan was prepared and implemented/under implementation. The interruptions experienced by the consumer are depicted below:

S. No.	Reason	March 2025		April 2025	
		Nos. of Tripping	Total Time (Min.)	Nos. of Tripping	Total Time (Min.)
1	Kalbaisakhi/ Thunderstorm	0	0	11	611
2	OPTCL Account (Due to PTR Upgradation/PSD)	2	269	4	83
3	Break Down Fault	0	0	2	212
4	Transient Fault	0	0	4	74
5	PSD/ESD for maintenance by TPWODL	4	370	3	296
	Total	**6**	**639**	**24**	**1276**

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A. **March Interruptions:** Total Interruptions: 06 Nos., with cumulative duration of 639 Minutes.

I. Interruption duration attributable to Transmission Constraints in OPTCL network (42%): TPWODL relies on OPTCL's transmission network for the bulk power supply. Any constraints or operational activities at the grid substation level directly impact on the downstream distribution network and its connected consumers. Due to the fire incident on 7th March 2025 in OPTCL Kesinga GSS periphery area, entire 33 kV circuits were switched off by OPTCL for safety reasons & customer supply was affected for 245 minutes which was timely intimated to consumer through dedicated WhatsApp group.

II. Interruptions duration due to PSD/ESD Maintenance (58%): On 24th March, Planned Shutdown of 213 minutes was availed by TPWODL for giving new connection to M/s Western Chemical through tapping from existing Bhawanipatna No 2 Feeder. Prior information to be provided to the customers. Shutdown on 25th March (Duration: 137 Minutes) was availed to rectify and bypass auto-recloser device owned by consumer M/s Jagannath Spintex.

B. **April Interruptions:** Total Interruptions: 24 Nos., with cumulative duration of 1276 minutes.

I. Impact of Weather Disturbances (47.8%): The Kesinga region is prone to adverse weather conditions, particularly during the pre-monsoon season, including high winds (Kalbaishaki) and heavy lightning. These natural events pose a significant challenge and interruptions caused by events considering overhead & radial network characteristics are considered force majeure events and are beyond the reasonable control of the distribution licensee. As evident in the April data, the interruption duration of 611 minutes (47.8% duration) was due to force majeure event associated with Kalbaishaki event.

II. Interruptions duration due to Planned Maintenance (23%): As per stated guidelines in CEA Regulation 2010 & Supply Code 2019, TPWODL undertakes planned shutdown for ensuring the safety and reliability of the network with prior intimation to customer. TPWODL sent prior intimation

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to all customers; two planned shutdowns were availed on 4th April for installation of Auto recloser with cumulative duration of 36 minutes. Another planned shutdown was availed on 19th April for duration of 161 minutes for Tree trimming and associated line maintenance.

III. Breakdown Fault (17%): Two untimely breakdowns occurred on subject feeder with cumulative duration of 212 minutes. The reason of failure is attributed to pin insulator failure and tree branch falling on feeder line.

Action taken by TPWODL with the consumer to enhance reliability is as under:

a) Auto recloser installed by TPWODL near THEMRA AB Switch on 07.05.2025, recognizing delay in supply of faulty component of Customer Auto recloser.
b) Inspection & comprehensive maintenance to be undertaken by TPWODL. Based on inspection findings, dedicated maintenance consisting of intermediate pole installation, tree trimming and replacement of porcelain with polymer insulator to reduce interruptions.
c) Repair & installation of AB switches in circuit for isolation and reduce restoration time.
d) Formation of dedicated WhatsApp group for prior and timely information to the customer on interruptions during planned and unplanned outages. TPWODL maintains a regular communication channel in the form of dedicated WhatsApp group/SMS with M/s Jagannath Spintex and provides prior intimation of planned outages and updates during unplanned interruptions, as per the regulatory guidelines and operational procedures.

Based on detailed route survey and relative findings, preventive maintenance has been undertaken along with other identified reliability improvement plan as stated below:

S. No.	Action Planned/ Undertaken	Timelines
1	Intermediate Pole Erection (09 Nos), Insulator Replacement (209 Nos)	Completed
2	Tree Trimming- 653 Nos	Completed
3	Coordination with OPTCL to expedite Energization of Power Transformer at Kesinga GSS (20 MVA to 40 MVA)	Completed
4	Installation & enablement of Auto-recloser by TPWODL	Completed
5	Preparation & Submission of Reliability Enhancement Scheme for approval	Submitted
6	Installation of Communicable FPI for MTTR reduction	**10th July'25***
*Earlier target date for installation of FPI was 30th June'25 however due to bad weather couldn't be installed.		

The Respondent DISCOM is committed to supply reliable and uninterrupted power supply to all its consumers and respectfully submits that the continued guidance and support of the Hon'ble Commission shall be instrumental in achieving this objective.

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15. That, in reply to Para No. 12, it is submitted that TPCODL has appointed IIT, Bhubaneswar for evaluation of company's performance over the last five years. The final report shall be shared with the Hon'ble Commission by TPCODL.

16. That, with regards to the reply to Para No. 13, it is submitted that the Respondent DISCOM gives utmost importance to resolve consumer grievances as quickly as possible. The Respondent DISCOM operates a 24x7 toll-free call centre (1912 / 1800-345-6798) with IVRS and integrated systems for prompt registration and resolution of customer queries and complaints. Queries are resolved instantly wherever possible, while complaints are logged into the FG CRM system and automatically routed to the relevant department through a system-defined escalation matrix. Every complaint raised is tracked through a structured escalation process and closure updates are sent via SMS and email. In cases where consumers continue to face issues or dispute the resolution, the Call Centre team re-escalates such grievances for further review and necessary action. In addition, customers can register service requests through a range of digital and physical platforms including the TPWODL website, My Tata Power Consumer App, Roshni chatbot, WhatsApp bot, social media channels, email, section and division offices, and 15 dedicated customer care centres, of which 4 are operated exclusively by women and 1 by Divyang (differently abled) persons. A 24x7 digital command centre actively monitors social media platforms to ensure timely redressal. Complaint handling is system-driven with automated tracking, escalation protocols and quality monitoring including call recordings and periodic audits.

    Customer feedback is captured through SMS notifications, Happy Calling, feedback tablets and drop boxes. To assess service quality and customer expectations, an independent Customer Satisfaction Survey was conducted in FY 2024–25 across all consumer segments. The survey reported a Customer Satisfaction Index of 86 (Top 2 Box) reflecting a high level of customer satisfaction with the services provided.

17. That, it is further submitted that the Hon'ble Commission is cognizant of all the activities carried out by the Respondent DISCOM and is taking periodical review of its functions, besides the annual performance appraisal and public hearing at the time of tariff fixation. As per various directions of the Hon'ble Commission, the Respondent DISCOM is also submitting several data and information from time to time as per the prescribed formats.

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Further, the Respondent DISCOM is also in the process of submitting the performance review for FY 2024-25 and has already submitted the performance reviews year-wise till FY 2023-24 and assures that objective analysis will reveal a gradual and continual improvement in the performance of the DISCOM. It is further assured that any shortcoming or process gaps so pointed out by the Hon'ble Commission, or any stakeholder shall be duly taken into account by the Respondent DISCOM and will be addressed appropriately.

Prayers:

18. That, in view of the above, the Respondent DISCOM prays before the Hon'ble Commission to:

    a) Consider the above submissions of the Respondent DISCOM and close the Sou Motu proceedings.

    b) Allow the Respondent DISCOM to crave leave for submission of further/additional reply as and when required by the Hon'ble Commission.

Respondent

Place: SAMBALPUR

Date: 04.07.2025

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ANNEXURE - A

TPWODL

Ref. No. TPWODL/CEO/FY25-26/012 **Date: 04.05.25**

To

The Secretary
Hon'ble OERC
Bidyut Niyamak Bhawan
Shailashree Vihar BBSR

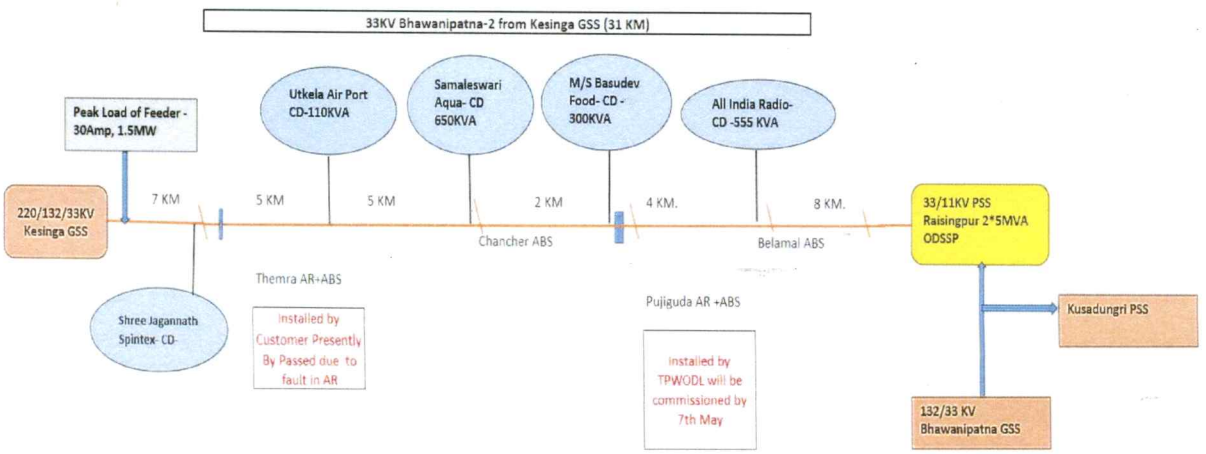
Subject: Response to Complaint Regarding Power Supply Interruption to M/s Jagannath Spintex on 33kV Bhawanipatna No. 2 Feeder from Kesinga GSS

Sir,

This report is submitted in response to the concerns raised regarding the power supply interruptions experienced by M/s Jagannath Spintex, an industrial consumer connected to 33kV Bhawanipatna No. 2 feeder emanating from the OPTCL Grid Substation at Kesinga. We understand the customer's dissatisfaction due to these interruptions and wish to provide a detailed analysis, supported by technical considerations and measures undertaken so far & planned to further enhance reliability and quality of supply to our valuable customers.

1.**Network Details & Characteristics:**

a) Feeder Name- 33 KV Bhawanipatna No 2 Feeder from Kesinga GSS.
b) Feeder Length : 31 Ckm. Passes through dense forest in two main patches one before this customer and one after the customer.
c) Feeder Configuration/Size/Pole Type : Radial/ 100 sqmm AAAC/9 Mtr RSJ & PSC Pole
d) Age : More than 30 Year. Augmentation was under Govt Fund in Year 2008-09.
e) Earlier Feeding Bhawanipatna town & periphery area also prior to commissioning of Bhawani Patna GSS.
f) Peak Load : 1.5 MW



2. Interruption Analysis: We acknowledge the interruptions experienced by M/s Jagannath Spintex during March and April 2025, as summarized below along with related analysis: -

Sl No.	Reason	March		April	
		Nos. of Tripping	Total Time(Min.)	Nos. of Tripping	Total Time(Min.)
1	Kalabaisakhi	0	0	11	611
2	OPTCL Side (L/R due to PTR Upgradation)	2	269	4	83
3	Break Down Fault (Incl AB Switch ON & OFF)	0	0	2	212
4	Transient Fault	0	0	4	74
5	PSD/ESD	4	370	3	296
6	Total	6	639	24	1276

A) March Interruptions: Total Interruptions: 06 Nos., with cumulative duration of 639 Minutes.

a) **Interruption duration attributable to Transmission Constrains in OPTCL network (42 %)**: TPWODL relies on OPTCL's transmission network for the bulk power supply. Any constraints or operational activities at the grid substation level directly impact the downstream distribution network and its connected consumers. Due to fire incident on 07th March 2025 in OPTCL Kesinga GSS periphery area, entire 33 KV circuits were switched off by OPTCL for safety reasons & customer supply was affected for 245 minutes which was timely intimated to consumer through dedicated WhatsApp group.

b) **Interruptions due to PSD/ESD Maintenance (58 %):** On 24th March, Planned Shutdown of 213 minutes was availed by TPWODL for giving new connection to M/s Western Chemical through tapping from existing Bhawanipatna No 2 Feeder. Prior information to provided to the customers. Shutdown on 25th March (Duration: 137 Minutes) was availed to rectify and by-pass auto-recloser device owned by consumer M/s Jagannath Spintex.

B) April Interruptions: Total Interruptions: 24 Nos., with cumulative duration of 1276 minutes.

a) **Impact of Weather Disturbances (47.8%)**: The Kesinga region is prone to adverse weather conditions, particularly during the pre-monsoon season, including high winds (Kalbaishaki) and heavy lightning. These natural events pose a significant challenge & interruptions caused by events considering overhead & radial network characteristics are considered force majeure events and are beyond the reasonable control of the distribution licensee. As evident in the April data, interruption duration of 611 minutes (47.8% duration) was due to force majeure event associated with Kalbaishaki event.

b) **Interruptions duration due to Planned Maintenance (23 %):** As per stated guidelines in CEA Regulation 2010 & Supply Code 2019, TPWODL undertakes planned shutdown for ensuring the safety and reliability of the network with prior intimation to customer. We send prior intimation to all customers; two planned shutdowns were availed on 04th April for installation of Auto recloser with cumulative duration of 36 minutes. Another planned shutdown was availed on 19th April for duration of 161 minutes for Tree trimming and associated line maintenance.

c) **Breakdown Fault (17 %):** Two number of untimely breakdowns occurred on subject feeder with cumulative duration of 212 minutes. Reason of failure is attributed to pin insulator failure and tree branch falling on feeder line.

3. Communication with the Customer: Based on customer reliability concern, TPWODL Senior official had visited customer in June 24 and jointly finalized stated action plan to enhance reliability: -

a) Installation of auto recloser by Customer as per already approved estimate. Customer acknowledged vitality of auto recloser in transient tripping mitigation and completed installation of auto recloser by end of June'24.

b) Inspection & comprehensive Maintenance to be undertaken by TPWODL. Based on inspection findings, dedicated maintenance consisting of intermediate pole installation, tree trimming, replacement of porcelain with polymer insulator to reduce interruptions.

c) Repair & installation of AB switches in circuit for isolation and reduce restoration time.

d) Formation of dedicated WhatsApp group for prior and timely information to customer on interruptions during planned and unplanned outages. TPWODL maintains a regular communication channel in form of dedicated WhatsApp group/SMS with M/s Jagannath Spintex and provides prior intimation of planned outages and updates during unplanned interruptions, as per the regulatory guidelines and operational procedures.

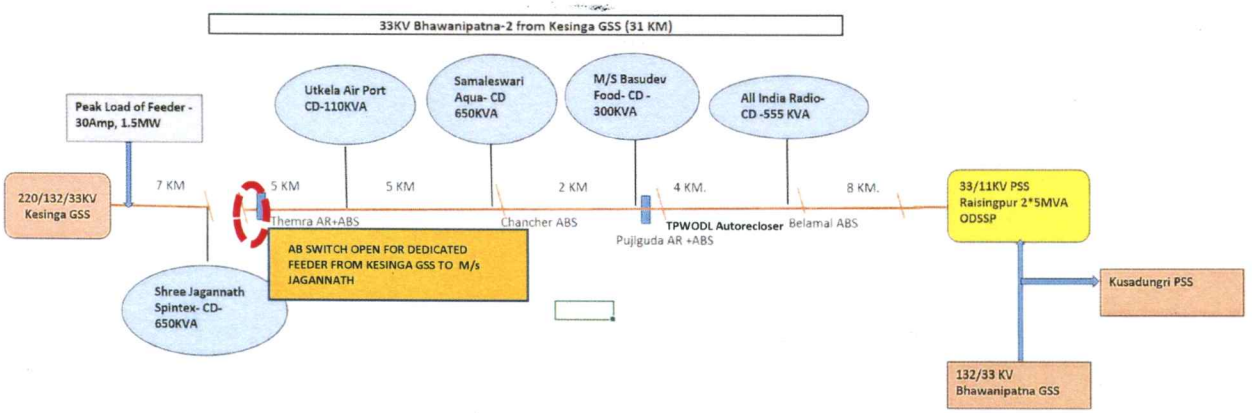
Based on stated action undertaken by Customer & TPWODL, substantial reduction in customer interruption count has been observed from July'24 till March'25.

Month	Power off Events (Nos.) including PSDs
Apr-24	14
May-24	25
Jun-24	25
Jul-24	8
Aug-24	10
Sep-24	9
Oct-24	8
Nov-24	5
Dec-24	4
Jan-25	3
Feb-25	1

4. **Installation of Auto recloser by TPWODL**: On 25th March 2025, auto recloser of Customer got faulty and same was tested by TPWODL team for rectification. However internal card of auto recloser was found faulty and being propriety item, customer had been intimated to arrange replacement of faulty components from OEM. Recognizing delay in supply of faulty component at customer end, TPWODL has initiated installation of another auto-recloser during month of April 2025 to ensure quick restoration of customer supply. It will be commissioned on 7th May.

5. Network Re-configuration for keeping only M/s Jagannath from Kesinga GSS and taking remaining network on Bhawanipatna: Based on network study undertaken coupled with customer requirement, Normal

Operating Condition of Bhawanipatna-2 Feed was reconfigured through Air-Break switches as marked below to ensure dedicated and direct feed from Kesinga GSS.



However, post NOC re-configuration, high voltage has been observed in certain slots during load crash and associated low load condition. Based on customer complain related to high voltages, network was normalized to original configuration. Customer's Transformer has auto-tap but highest is at 34.5 kV so anything more than that from grid results in high voltage.

5. Reliability Improvement Initiatives Undertaken & Planned:

Based on detailed route survey and relative findings, preventive maintenance has been undertaken in FY 2024-25 along with other identified reliability improvement plan as stated below:-

S.No	Action Planned/Undertaken	Timelines
1	Intermediate Pole Erection (09 Nos), Insulator Replacement(209 Nos)	Completed
2	Tree Trimming- 653 Nos	Completed
3	Coordination with OPTCL to expedite Energization of Power Transformer at Kesinga GSS (20 MVA to 40 MVA)	10th May
4	Installation & enablement of Auto-recloser by TPWODL	07th May
5	Installation of Communicable FPI for MTTR reduction	30th June
6	Preparation & Submission of Reliability Enhancement Scheme for approval	20th May

We respectfully request the Hon'ble Commission to consider the technical justifications and the several factors contributing to the interruptions experienced by M/s Jagannath Spintex. We assure the Commission of our unwavering commitment to providing reliable power supply within the existing infrastructure limitations and our continuous efforts towards network improvement. We have identified a few options for further improvement and the same shall be shared by 15th May 2025.

Submitted for kind perusal.

Regards
Parveen Verma
CEO

TP WESTERN ODISHA DISTRIBUTION LIMITED
(A Joint Venture of Tata Power and Government of Odisha)
Regd /Corp Office: Burla, Dist-Sambalpur, Odisha -768 017
Website: www.tpwesternodisha.com, Email: tpwodl@tpwesternodisha.com
Corporate Identification Number (CIN): U40109OR2020PLC035230, Telephone No, 0663-2431984, Fax No: 0663-2432113

ANNEXURE-B

TPWODL

Ref. No.: TPWODL/CEO/FY25-26/019 Date: 19.05.25

To

The Secretary
Hon'ble OERC
Bidyut Niyamak Bhawan
Shaileshree Vihar, Bhubaneshwar.

Subject: Submission of Reliability Enhancement Scheme for 33kV Bhawanipatna No. 2 Feeder

Ref: TPWODL Letter No. TPWODL/CEO/FY25-26/012 dated 04.05.25

Respected Sir,

In continuation to our earlier submission, referenced above regarding our efforts for improving the reliability towards M/s Jagannath Spintex on the 33kV Bhawanipatna No. 2 feeder, we hereby submit the detailed report for the proposed Reliability Enhancement Scheme.

The proposed scheme has been framed keeping in view technical feasibility, thorough field inspection and interruption data analysis. It includes interventions to reduce transient faults & downtime and ensure reliable power supply to critical industrial consumer.

This submission is being made for the kind perusal of the Hon'ble Commission and kind approval. We remain committed to implement necessary measures for enhancing system reliability and reduce customer interruptions.

Regards,

Parveen Verma
Chief Executive Officer

TPWODL

RELIABILITY ENHANCEMENT SCHEME FOR 33KV BHAWANIPATNA NO. 2 FEEDER

1. BACKGROUND:

- 33 KV Bhawanipatna No-2 feeder emanates from 220/132/33 KV Kesinga Grid Substation (GSS). The total length of the feeder is 30 Ckm with 100 sqmm AAAC Conductor and the peak loading of the feeder is 30 Amp.
- The feeder passes through dense plantation areas where tree trimming is restricted, leading to frequent transient faults that adversely affect feeder reliability.
- An alternate supply for this feeder is available from 33/11 kV Raisingpur PSS via the 33 kV Bhangabari Bhawanipatna No-1 feeder, which originates from the 132/33 kV Bhawanipatna GSS. The alternate feeder is 35 km long with 100 sqmm AAAC conductor. It has a peak load of 207 A, which rises to 245 A under N-1 conditions.
- Recently, M/s Jagannath Spintex, a major industrial consumer connected to the Bhawanipatna No-2 feeder, raised concerns regarding frequent power supply interruptions and requested improvement in the reliability of the existing network.
- Based on the consumer's concerns, a detailed network study and reliability analysis were carried out. Subsequently, reliability improvement schemes have been proposed.

2. NETWORK DETAILS:

NAME OF FEEDER	33 KV BHAWANIPATNA N0-2
NAME OF GSS	220/132/33 KV KESINGA
LENGTH OF THE FEEDEER	30 CKM
SIZE OF THE CONDUCTOR	100 SQMM AAAC
PEAK LOADING	30 Amp
TYPE OF POLE	9 MTR PSC/RSJ/RAIL
NO OF HT CONSUMERS	6 NO OF HT CONSUMERS

3. PROPOSED SCHEME:

- To enhance the reliability of the 33 kV Bhawanipatna No-2 feeder section passing through dense tree plantations from the outskirts of Kesinga town up to the Ret River, it is proposed to upgrade 4 Ckm of the existing feeder by replacing the 100 sqmm AAAC bare conductor with 148 sqmm covered AAAC conductor & 13-meter WPB poles.
- For 33kV line section from outskirts of Kesinga town to Therma AB switch location (5.3 CKM), it is proposed to upgrade existing line by replacing the 100 sqmm AAAC bare conductor with 148 sqmm AAAC conductor & 13-meter WPB poles.
- To provide a dual power source for M/s Jagannath Spintex, it is proposed to install one 33 kV 3-way RMU and to erect a link line of 0.9 Ckm to facilitate a Loop-In Loop-Out (LILO) arrangement, ensuring supply from two different Grid Substations.

- For operation and maintenance purposes, one double pole (DP) structure with 800 A isolator is proposed near M/s Western Chemicals / Jagannath Spintex.
- Additionally, to enable faster fault detection in the Raisingpur to Belamal section, it is proposed to install one set of 33 kV Fault Passage Indicator (FPI) at the Belamal AB switch location.

4. PROPOSED SCOPE:

- 4 CKM of 33 KV feeder upgradation from 100 sqmm AAAC to 148 sqmm Covered AAAC using 13 Mtr WPB Pole.
- 5.3 CKM of 33 KV feeder upgradation from 100 sqmm AAAC to 148 sqmm Bare AAAC using 13 Mtr WPB Pole.
- 0.9 Ckm of 33 KV new Line of 148 sqmm AAAC using 13 Mtr WPB Pole for LILO Line at M/s Jagannath Spintex.
- 1 no of 33 KV, 3-Way RMU with 60 Mtr of 3C x 400 sqmm XLPE Cable.
- 2 nos of DP for cable termination purpose using 13 Mtr WPB Pole.
- 1 no of DP with Isolator (800 A) using 13 Mtr WPB Pole.
- 1 set of 33KV FPI with DCU.

5. BOQ & ESTIMATE:

ESTIMATE-1: 33KV NEW LINE (BARE)

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
A	**Cost of PSC Poles**	**A**						
B	**Cost of WPB Pole**	**B**			**5580080.00**		**1155456.00**	**6735536.00**
1	13 Mtr WPB Pole	Nos.	136	41030.00	5580080.00	8496.00	1155456.00	6735536.00
C	**Cost of materials for line**	**C**			**3384463.08**		**1395211.09**	**5046994.68**
1	148 sqmm AAAC	Km.	19.16	120454.40	2307665.40	35400.00	678193.20	2985858.60
2	Top Channel 100x50x6 mm	Kg	618	85.87	53087.40	32.59	20149.43	73236.83
3	Bracing Channel 75x40x6 mm	Kg	914	85.87	78477.03	32.59	29786.12	108263.15
4	Bracing Angle 50x50x6 mm	Kg	216	85.87	18547.62	32.59	7039.79	25587.40
5	GI Flat 50x6 mm	Kg	227	85.87	19454.39	218.47	49495.48	68949.87
6	GI Flat 25x3 mm	Kg	108	85.87	9273.81	111.99	12095.33	21369.14
7	Fish Plate 50x6mm	Kg	48	85.87	4121.69	32.59	1564.40	5686.09
8	33 KV V X arm	No.	112	2008.36	224936.32	228.13	25550.49	250486.81
9	33 KV Pole Clamp	No.	112	210.04	23524.48	60.36	6759.98	30284.46
10	33 KV Disc Insulator (B & S), Polymer	No.	72	358.72	25827.84	54.32	3910.71	29738.55
11	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	72	1332.22	95919.84	0.00		95919.84
12	PG Clamp for 148 sqmm AAAC	No.	72	657.83	47363.50	37.42	2694.08	50057.58
13	33 KV Pin Insulator, Polymer	No.	372	566.40	210700.80	32.59	12124.08	222824.88
14	HT Complete Stay Set	Set	70	1475.00	103250.00	2715.80	190105.97	293355.97
15	HT stay clamp GI (1.9Kg/pair)	Set	70	283.20	19824.00			19824.00

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
16	H.T. Stay Insulator (Type-C)	Nos.	70	59.00	4130.00			4130.00
17	7/10 SWG GI Stay Wire	Kg	492	90.66	44604.42			44604.42
18	GI Pipe for earthing (40 mm)	Set	12			5431.60	65179.19	65179.19
19	Supply, Installation and fixing of HDPE Pipe - 25mm Dia for Wire/Cable protection	Mtr	36			162.95	5866.13	5866.13
20	No 8 GI wire (for earthing)	Kg.	250	87.25	21812.30	17.77	4441.76	26254.06
21	Earthing of support (Coil Type)	No.	112	191.16	21409.92	877.37	98264.90	119674.82
22	GI Nuts Bolt & Washer	Kg.	404	125.08	50532.32	31.86	12871.44	63403.76
23	GI Barbered wire for anticlimbing	Kg.	272			483.80	131593.60	131593.60
24	Danger Plate	No.	136			275.92	37525.04	37525.04
25	Pole Dismantling Cost	Nos.	40			1629.49	65179.42	65179.42
26	Dismantling Cost of Existing Conductor	Km.	19			10867.80	202141.08	202141.08
D	**SUBTOTAL(D)**	**A+B+C**			**8964543.08**		**2550667.09**	**11515210.17**
E	Transportation & Escalation	E	5%		448227.15		127533.35	575760.51
F	**Total (F)**	**F=D+E**			**9412770.24**		**2678200.44**	**1,20,90,971.00**

ESTIMATE-2: 33 KV NEW LINE (COVERED CONDUCTOR)

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
A	**Cost of PSC Poles**	**A**						
B	**Cost of WPB Pole**	**B**			**4431240.00**		**917568.00**	**5348808.00**
1	13 Mtr WPB Pole	Nos.	108	41030.00	4431240.00	8496.00	917568.00	5348808.00
C	**Cost of materials for line**	**C**			**4020634.91**		**2973153.22**	**7173086.30**
1	148 sqmm Covered AAAC	Km.	12.36	253310.60	3130919.02	175017.00	2163210.12	5294129.14
2	Top Channel 100x50x6 mm	Kg	618	85.87	53087.40	32.59	20149.43	73236.83
3	Bracing Channel 75x40x6 mm	Kg	914	85.87	78477.03	32.59	29786.12	108263.15
4	Bracing Angle 50x50x6 mm	Kg	216	85.87	18547.62	32.59	7039.79	25587.40
5	GI Flat 50x6 mm	Kg	227	85.87	19454.39	218.47	49495.48	68949.87
6	GI Flat 25x3 mm	Kg	108	85.87	9273.81	111.99	12095.33	21369.14
7	Fish Plate 50x6mm	Kg	48	85.87	4121.69	32.59	1564.40	5686.09
8	33 KV V X arm	No.	84	2008.36	168702.24	228.13	19162.87	187865.11
9	33 KV Pole Clamp	No.	84	210.04	17643.36	60.36	5069.99	22713.35
10	33 KV Disc Insulator (B & S), Polymer	No.	72	358.72	25827.84	54.32	3910.71	29738.55
11	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	72	1332.22	95919.84	0.00		95919.84
12	Termination Kit for Covered Conductor	No.	72			2491.02	179353.11	179353.11
13	Mid Span Jointer	No.	12			244.25	2930.98	2930.98
14	33 KV Pin Insulator, Polymer	No.	288	566.40	163123.20	32.59	9386.38	172509.58
15	HT Complete Stay Set	Set	65	1475.00	95875.00	2715.80	176526.97	272401.97

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
16	HT stay clamp GI (1.9Kg/pair)	Set	65	283.20	18408.00			18408.00
17	H.T. Stay Insulator (Type-C)	Nos.	65	59.00	3835.00			3835.00
18	7/10 SWG GI Stay Wire	Kg	457	90.66	41431.35			41431.35
19	GI Pipe for earthing (40 mm)	Set	12			5431.60	65179.19	65179.19
20	Supply, Installation and fixing of HDPE Pipe - 25mm Dia for Wire/Cable protection	Mtr	36			162.95	5866.13	5866.13
21	No 8 GI wire (for earthing)	Kg.	188	87.25	16402.85	17.77	3340.20	19743.05
22	Earthing of support (Coil Type)	No.	84	191.16	16057.44	877.37	73698.67	89756.11
23	GI Nuts Bolt & Washer	Kg.	348	125.08	43527.84	31.86	11087.28	54615.12
24	GI Barbered wire for anticlimbing	Kg.	216			483.80	104500.80	104500.80
25	Danger Plate	No.	108			275.92	29799.30	29799.30
26	Pole Dismantling Cost	Nos.	30			1629.49	48884.57	48884.57
27	Dismantling Cost Of Existing Conductor	Km.	12			10867.80	130413.60	130413.60
D	**SUBTOTAL(D)**	**A+B+C**			**8451874.91**		**3890721.22**	**12342596.14**
E	Transportation & Escalation	**E**	5%		422593.75		194536.06	617129.81
F	**Total (F)**	**F=D+E**			**8874468.66**		**4085257.28**	**1,29,59,726.00**

ESTIMATE-3: DP WITH ISOLATOR

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
A	**Cost of PSC Poles**	**A**						
B	**Cost of RS Joist / Transformers**	**B**			**82060.00**		**16992.00**	**99052.00**
1	13 Mtr WPB Pole	Nos.	2	41030.00	82060.00	8496.00	16992.00	99052.00
C	**Cost of materials for line**	**C**			**136478.10**		**66714.81**	**203192.91**
1	Top Channel 100x50x6 mm	Kg	52	85.87	4423.95	32.59	1679.12	6103.07
2	Bracing Channel 70x40x6 mm	Kg	135	85.87	11561.35	32.59	4388.13	15949.48
3	Bracing Angle 50x50x6 mm	Kg	32	85.87	2704.86	32.59	1026.64	3731.50
4	GI Flat 50x6 mm	Kg	32	85.87	2756.04	218.47	7011.86	9767.90
5	GI Flat 25x3 mm	Kg	9	85.87	772.82	111.99	1007.94	1780.76
6	Fish Plate 50x6mm	Kg	4	85.87	343.47	32.59	130.37	473.84
7	33 KV Isolator without earth switch (630 Amp)	Set	1	37642.00	37642.00	14160.00	14160.00	51802.00
8	Lightning Arrester 30 KV 10 KA Gapless Cage type with Polymeric Housing (SL Class, CL-II, with surge counter)	Nos.	3	16261.89	48785.66	2179.88	6539.65	55325.31
9	33 KV Disc Insulator (B & S), Polymer	No.	6	358.72	2152.32	54.32	325.89	2478.21
10	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	6	1332.22	7993.32	0.00		7993.32
11	PG Clamp for 148 sqmm AAAC	No.	6	657.83	3946.96	37.42	224.51	4171.47
12	33 KV Pin Insulator, Polymer	No.	3	566.40	1699.20	32.59	97.77	1796.97

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
13	HT Complete Stay Set	Set	4	1475.00	5900.00	2715.80	10863.20	16763.20
14	HT stay clamp GI (1.9Kg/pair)	Set	4	283.20	1132.80			1132.80
15	H.T. Stay Insulator (Type-C)	Nos.	4	59.00	236.00			236.00
16	7/10 SWG GI Stay Wire	Kg	28.14	90.66	2551.16			2551.16
17	GI Pipe for earthing (40 mm)	Set	3			5431.60	16294.80	16294.80
18	GI Nuts Bolt & Washer	Kg.	15	125.08	1876.20	31.86	477.90	2354.10
19	GI Barbered wire for anticlimbing	Kg.	4			483.80	1935.20	1935.20
20	Danger Plate	No.	2			275.92	551.84	551.84
D	**SUBTOTAL(D)**	**A+B+C**			**218538.10**		**83706.81**	**302244.91**
E	Transportation & Escalation	E	5%		10926.91		4185.34	15112.25
F	**Total (F)**	**F=D+E**			**229465.01**		**87892.15**	**3,17,357.00**

ESTIMATE-4: 33 KV 3-WAY RMU (O/D)

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
A	**Name of the Materials**	**A**						
1.1	33 KV RMU (3 way, motorized 630 A,25 KA/1 sec, OD Type,2-ISO&1-CB+ Aux PT+FRTU) 33 KV RMU with IED Monitoring Integration	Nos.	1	3181296.54	3181296.54	14160.00	14160.00	3195456.54
1.2	M-Seal, Bakelite sheet for Vermin Proofing RMU Cable compartment.	Nos.	3			1175.40	3526.19	3526.19
1.3	33KV RMU Terminal booting	Nos.	3			3298.07	9894.20	9894.20
1.4	RMU Plinth with Brick, Mortar, 12 mm cement plaster as per drawing	Nos.	1			30680.00	30680.00	30680.00
2	Belting Channel 75x40x6mm GI	Kg	122.40	85.87	10510.32	32.59	3989.21	14499.53
3	GI Flat 25x6mm	Kg	15.00	85.87	1288.03	21.83	327.45	1615.48
4	33KV 3C 400Sq mm XLPE Cable	Mtr	60.00	3676.88	220612.80	118.20	7092.04	227704.84
5	33 KV O/D Jointing kit for 3C 400Sq mm XLPE Cable	No.	3	18644.00	55932.00	2414.04	7242.13	63174.13
6	33 KV I/D Jointing kit for 3C 400Sq mm XLPE Cable	No.	3	13381.20	40143.60	2414.04	7242.13	47385.73
7	40mm nominal bore GI Pipe earthing device	No.	2	1478.30	2956.61	4465.98	8931.96	11888.57
8	GI Nuts Bolt & Washer	Kg.	10			159.30	1593.00	1593.00
B	**SUBTOTAL(B)**				**3512739.90**		**94678.32**	**3607418.22**
D	**Sub Total (H)**	**D=B+C**			**3512739.90**		**94678.32**	**3607418.22**
E	Transportation & Escalation		5%				180370.91	180370.91
F	**Grand Total**	**F=D+E**			**3512739.90**		**275049.23**	**3787789.13**
		or say						**37,87,789.00**

TPWODL

ESTIMATE-5: DP WITH CABLE TERMINATION

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
A	**Cost of PSC Poles**	**A**						
B	**Cost of RS Joist / Transformers**	**B**			**164120.00**		**33984.00**	**198104.00**
1	13 Mtr WPB Pole	Nos.	4	41030.00	164120.00	8496.00	33984.00	198104.00
C	**Cost of materials for line**	**C**			**163161.34**		**101544.88**	**264706.23**
1	Top Channel 100x50x6 mm	Kg	103	85.87	8847.90	32.59	3358.24	12206.14
2	Bracing Channel 70x40x6 mm	Kg	228	85.87	19619.26	32.59	7446.53	27065.79
3	Bracing Angle 50x50x6 mm	Kg	36	85.87	3091.27	32.59	1173.30	4264.57
4	GI Flat 50x6 mm	Kg	48	85.87	4134.06	218.47	10517.79	14651.85
5	GI Flat 25x3 mm	Kg	18	85.87	1545.63	111.99	2015.89	3561.52
6	Fish Plate 50x6mm	Kg	8	85.87	686.95	32.59	260.73	947.68
7	HDPE Pipe (200 mm)	Mtr	12			2051.94	24623.25	24623.25
8	Lightning Arrester 30 KV 10 KA Gapless Cage type with Polymeric Housing (SL Class, CL-II, with surge counter)	Nos.	6	16261.89	97571.32	2179.88	13079.29	110650.61
9	33 KV Disc Insulator (B & S), Polymer	No.	6	358.72	2152.32	54.32	325.89	2478.21
10	33 KV H/W Fitting (B & S type) for Disc Insulator	No.	6	1332.22	7993.32	0.00		7993.32
11	PG Clamp for 148 sqmm AAAC	No.	6	657.83	3946.96	37.42	224.51	4171.47
12	HT Complete Stay Set	Set	4	1475.00	5900.00	2715.80	10863.20	16763.20
13	HT stay clamp GI (1.9Kg/pair)	Set	4	283.20	1132.80			1132.80
14	H.T. Stay Insulator (Type-C)	Nos.	4	59.00	236.00			236.00
15	7/10 SWG GI Stay Wire	Kg	28.14	90.66	2551.16			2551.16
16	GI Pipe for earthing (40 mm)	Set	4			5431.60	21726.40	21726.40
17	GI Nuts Bolt & Washer	Kg.	30	125.08	3752.40	31.86	955.80	4708.20
18	GI Barbered wire for anticlimbing	Kg.	8			483.80	3870.40	3870.40
19	Danger Plate	No.	4			275.92	1103.68	1103.68
D	**SUBTOTAL(D)**	**A+B+C**			**327281.34**		**135528.88**	**462810.23**
E	Transportation & Escalation	**E**	5%		16364.07		6776.44	23140.51
F	**Total (F)**	**F=D+E**			**343645.41**		**142305.33**	**4,85,951.00**

TPWODL

ESTIMATE-6: 33 KV FPI

Sl No	Description of materials	Unit	Qty	Supply Per Unit Rate (Rs)	Supply Amount (Rs)	Erection charges (RC Rate in Rs)	Total Erection (Rs)	Total Amount (Rs)
A	**Name of the Materials**	A						
1	33 KV FPI suitable for Pole mounting	Nos.	3	18874.10	56622.30	1207.02	3621.07	60243.37
2	Data Concentration Unit for Communication (33 KV FPI)	Nos.	1			131570.00	131570.00	131570.00
B	**SUBTOTAL(B)**				**56622.30**		**135191.07**	**191813.37**
D	**Sub Total (H)**	D=B+C			**56622.30**		**135191.07**	**191813.37**
E	Transportation & Escalation		5%				9590.67	9590.67
F	**Grand Total**	F=D+E			**56622.30**		**144781.73**	**201404.03**
		or say						**2,01,404.00**

ESTIMATE SUMMARY:

SL NO	WORK NAME	AMOUNT (RS.)
ESTIMATE – 1	33 KV NEW LINE (BARE)	1,20,90,971.00
ESTIMATE - 2	33 KV NEW LINE (COVERED CONDUCTOR)	1,29,59,726.00
ESTIMATE - 3	DP WITH ISOLATOR ION	3,17,357.00
ESTIMATE – 4	33 KV 3-WAY RMU (OD)	37,87,789.00
ESTIMATE - 5	DP FOR CABLE TERMINAT	4,85,951.00
ESTIMATE - 6	33 KV FPI	2,01,404.00
TOTAL		**2,98,43,198.00**

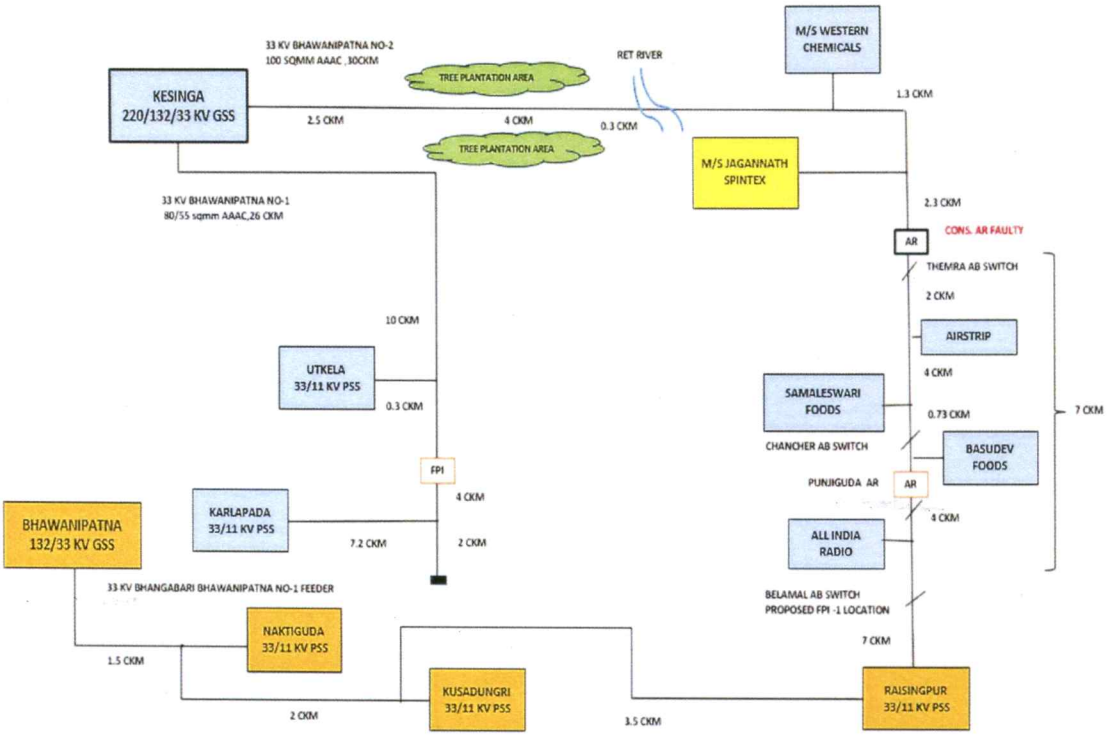
In words: (Rupees Two crore Ninety Eight Lakhs Forty Three Thousand One Hundred Ninety Eight Only).

6. BENEFITS:

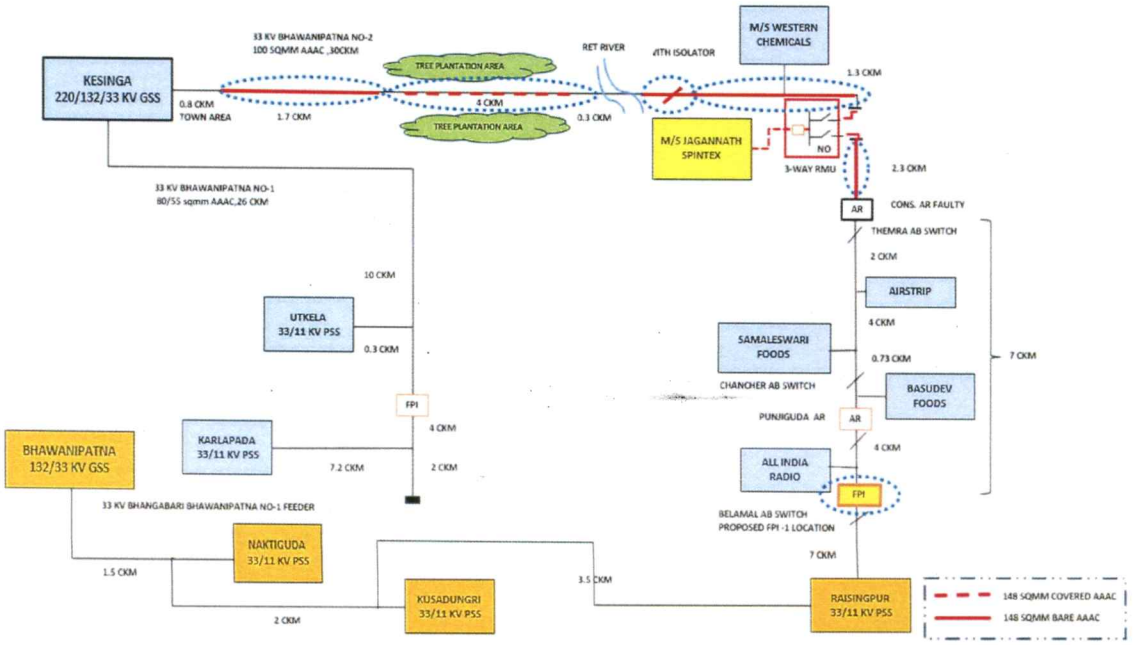
- Reduction in transient faults and unplanned outages.
- Enhanced supply reliability for critical industrial consumers.
- Improved compliance with electrical clearance norms.

TPWODL

7. EXISTING SLD:



8. PROPOSED SLD:

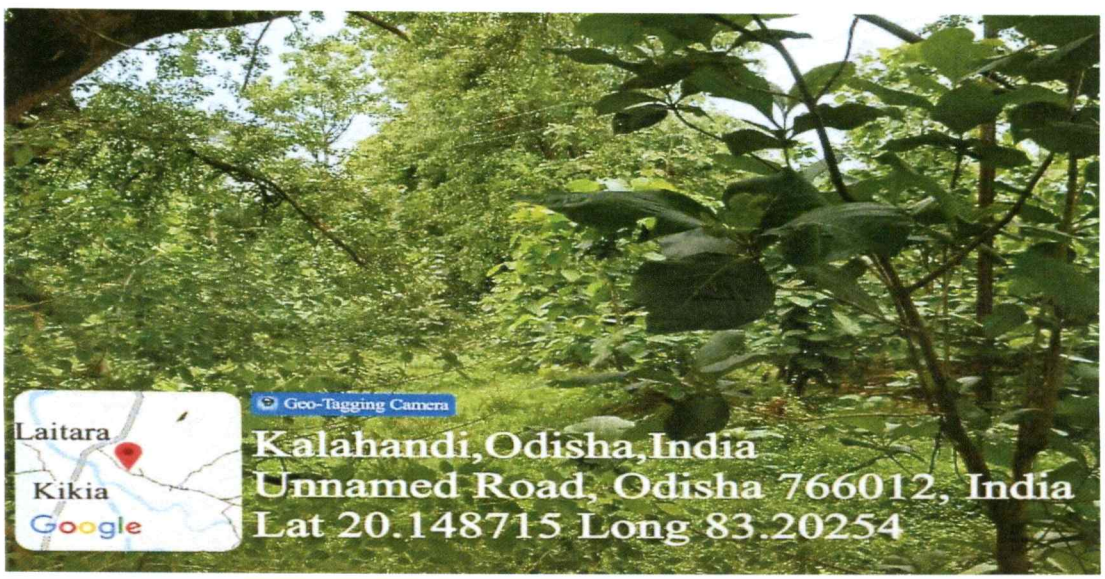


9. SITE PHOTOGRAPHS:

=x-O-x=

ANNEXURE-C

SITE SNAPSHOTS:




Geo-Tagging Camera
Kesinga,Odisha,India
142, Kesinga, Laitara, Odisha 766012, India
Lat 20.167003 Long 83.211948
Google


Geo-Tagging Camera
Laitara,Odisha,India
Unnamed Road, Laitara,
Odisha 766012, India
Lat 20.159303 Long 83.207789
Google


Geo-Tagging Camera
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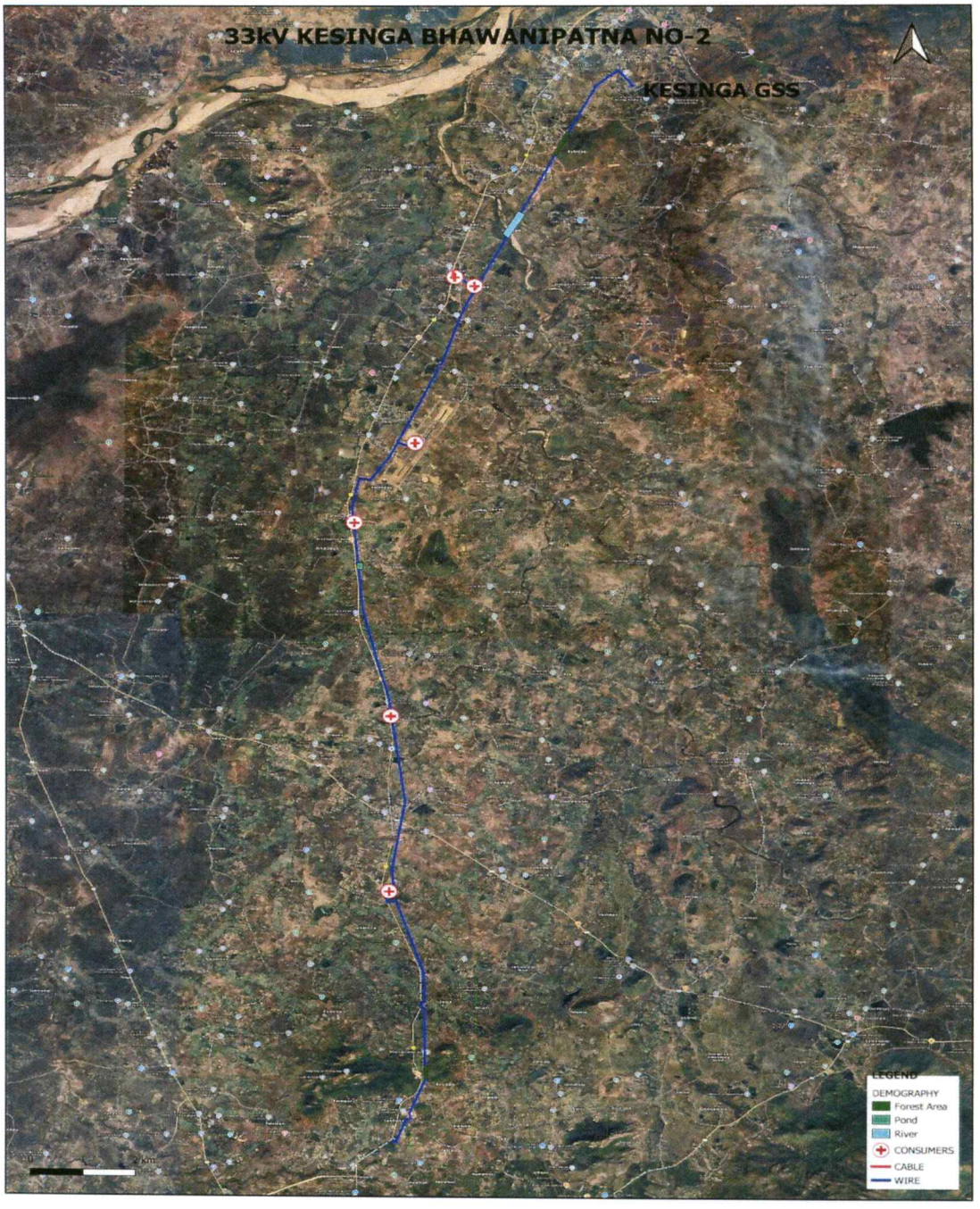
766012, India
Lat 20.166856 Long 83.211666
Google

Google Earth Picture:



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